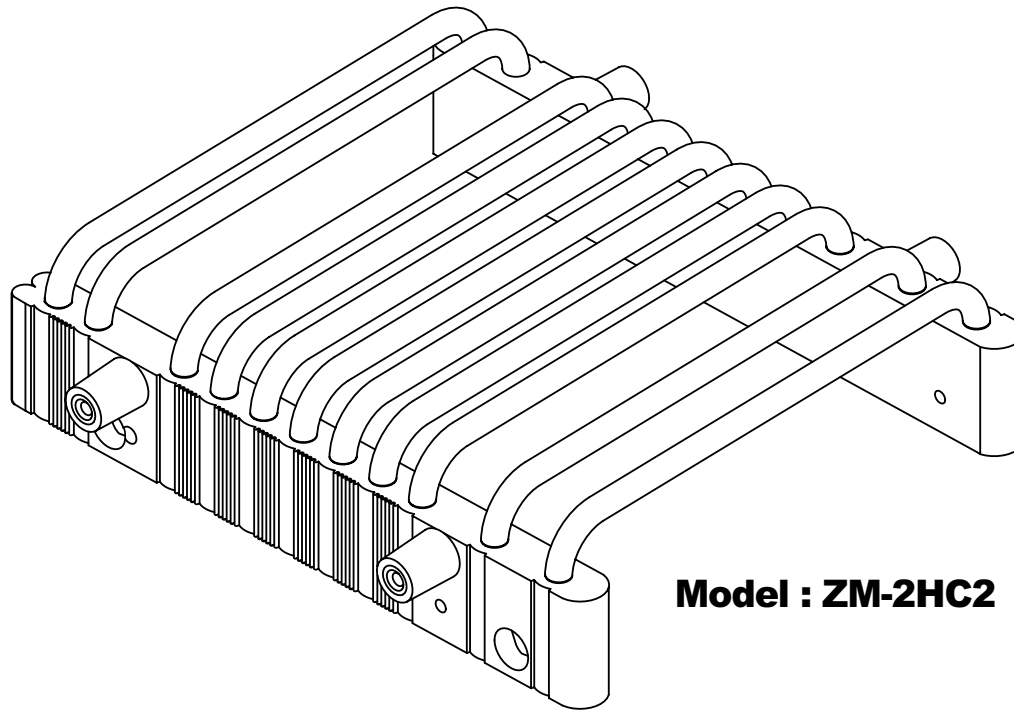
ZALMAN

User's Manual

(English Edition)



Model : ZM-2HC2

NP Heatpipe HDD Cooler

*** Please read before installation**

http:// www.zalman.co.kr http:// www.zalmanusa.com

1. Product Features

- Cools HDD for more stable operation
- Reduces HDD noise and vibration
- Fanless design ensures noiseless, maintenance-free operation
  - ⁎ NP is an Acronym for “Noise Prevention”.

2. Specifications

Name	NP Heatpipe HDD Cooler
Weight	270g
Materials	Aluminum, Copper, Rubber
Dimensions	143.5(L) X 146.5(W) X 36.5(H) mm
Heat Dissipating Area	415 cm^2

3. Patent Applications

❖ Patent Applications Pending in over 20 nations around the world, including the U.S.A., EU, and Japan

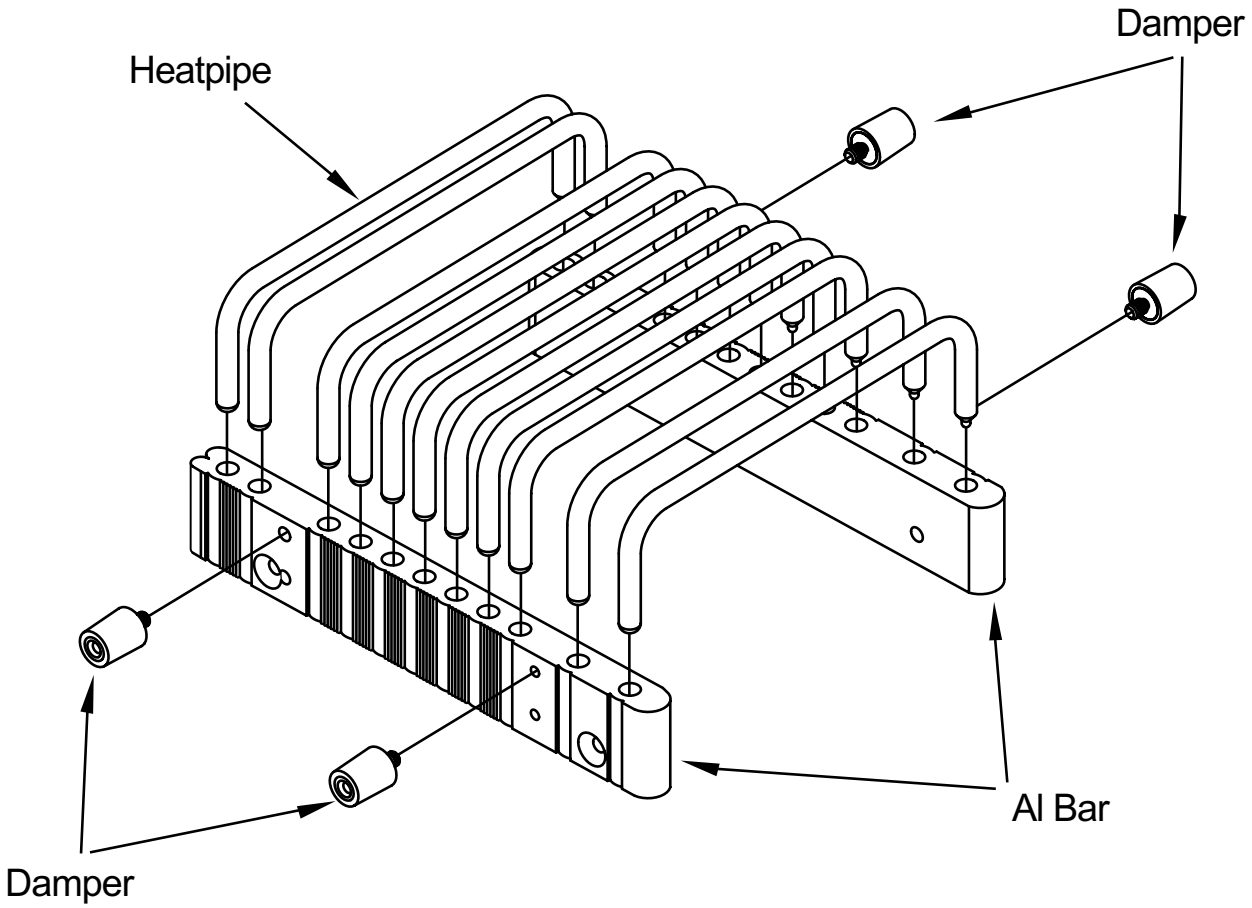
❖ Korean Patent Applications : No. 03-26421

4. Compatible HDDs

3.5-inch Hard Disk Drive for PCs

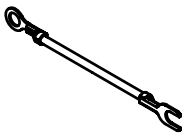
Standard Size : 146 X 101.6 X 25.4 (20) mm

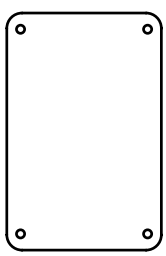
5. Exploded View



A-Type Bolt

B-Type Bolt


Ground Wire


Mounting Hole Sticker

Manual

<Fig. 1. Exploded View>

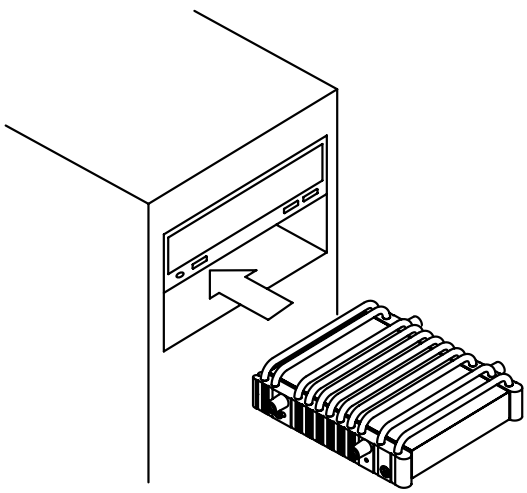
6. Components

- Assembed NP Heatpipe HDD Cooler
  - Two (2) Al Bars
  - Eleven (11) Heatpipes
- Four (4) A-Type Bolts : For fastening the HDD
- Four (4) B-Type Bolts : For installing the HDD Cooler
- Four (4) Dampers : For reducing the HDD noise and vibration
- One (1) Ground Wire : For Grounding the HDD
- Spare Parts : A-Type Bolt, B-Type Bolt, Damper (One of Each)
- Mounting Hole Sticker : For indicating the drilling positions on the case
- User's Manual

∗ See the <Fig. 1. Exploded View> on page 2 to identify the above components.

7. Before Installing

1) Use a small amount of force : if excessive force is used when installing, the product may warp or be deformed.
2) Zalman Tech. Co., Ltd. is not responsible for any problems arising from using the product outside its intended purpose.
3) HDD coupled with NP Heatpipe HDD Cooler should always be installed in the case with the heatpipes facing up. [Refer to pictures below]



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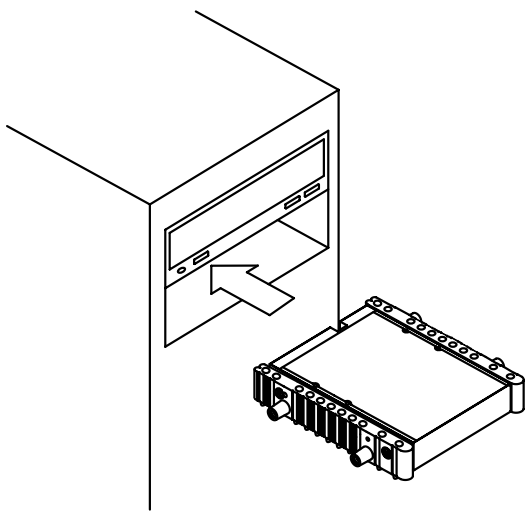
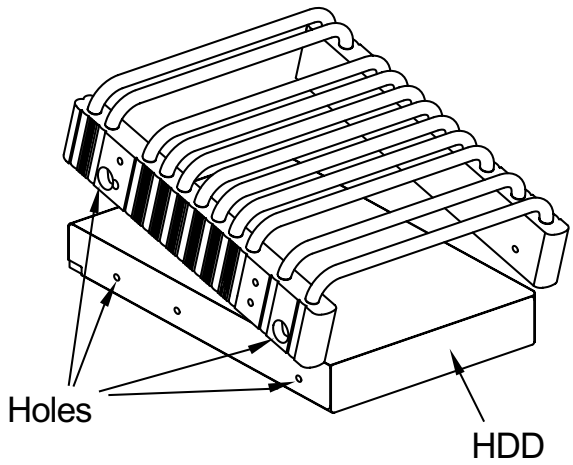


(X)

8. Installing the HDD

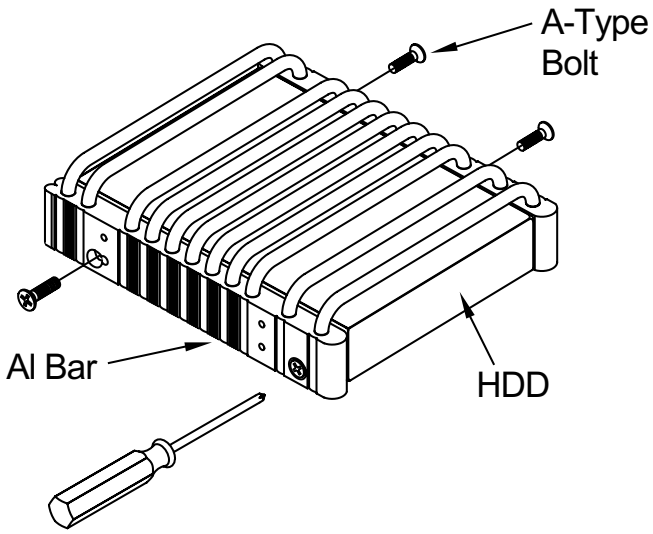
1) Seat the NP Heatpipe HDD Cooler

Seat the NP Heatpipe HDD Cooler on the HDD as shown in the diagram. (Note the locations of the holes)



2) Fasten the HDD

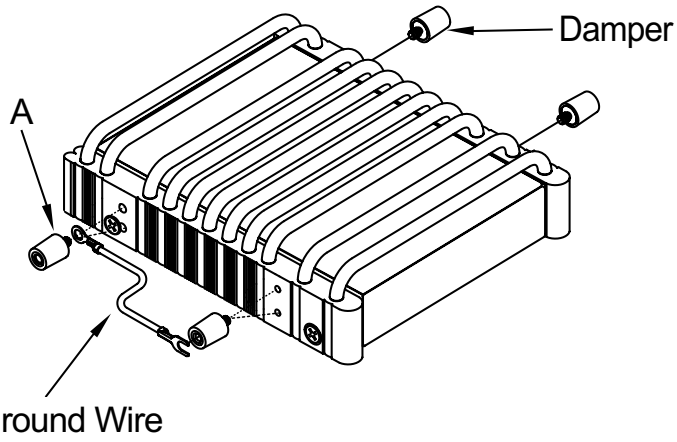
Screw the 4 A-Type Bolts into the holes and firmly tighten.



9. Installing the HDD Cooler in the 5.25-inch Drive Bay

1) Install the Dampers & the Ground Wire

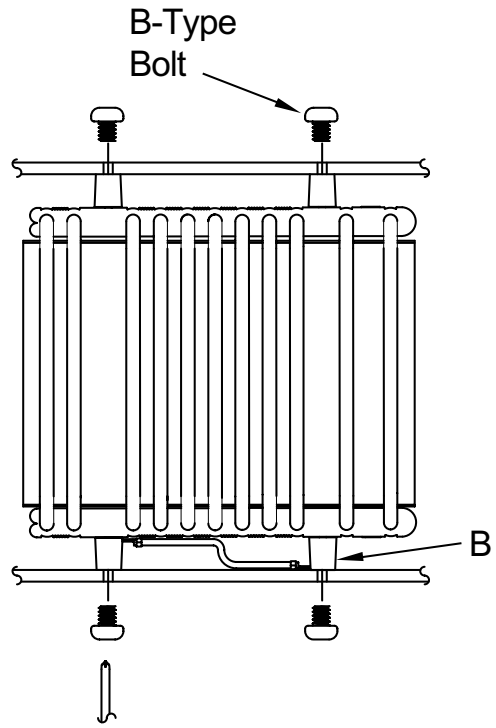
Install the 4 Dampers in the NP Heatpipe HDD Cooler. Insert the thread of one of the dampers through the ground wire's round terminal for the ground. [Refer to arrow A]



2) Install into 5.25-inch Drive Bay

Slide the completed assembly into the PC's 5.25-inch drive bay and firmly fasten with 4 B-Type Bolts. Use one of the B-Type Bolts to link the ground wire's Y-terminal to the chassis. [Refer to arrow B]

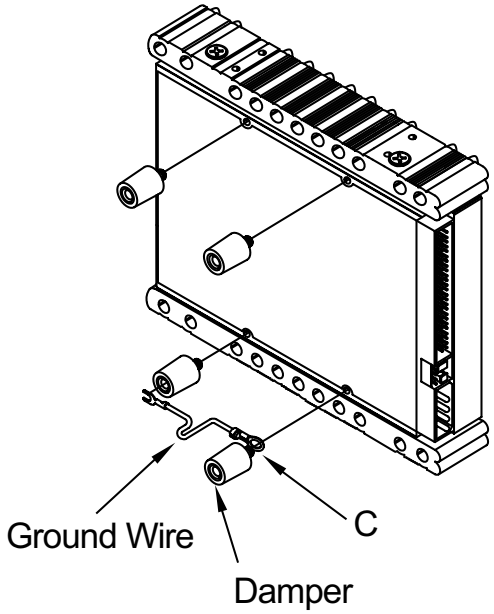
Note) Tighten the B-type bolts enough so that they are firm, but do not cause distortion of the dampers.



10. Installing the HDD Cooler in the Case

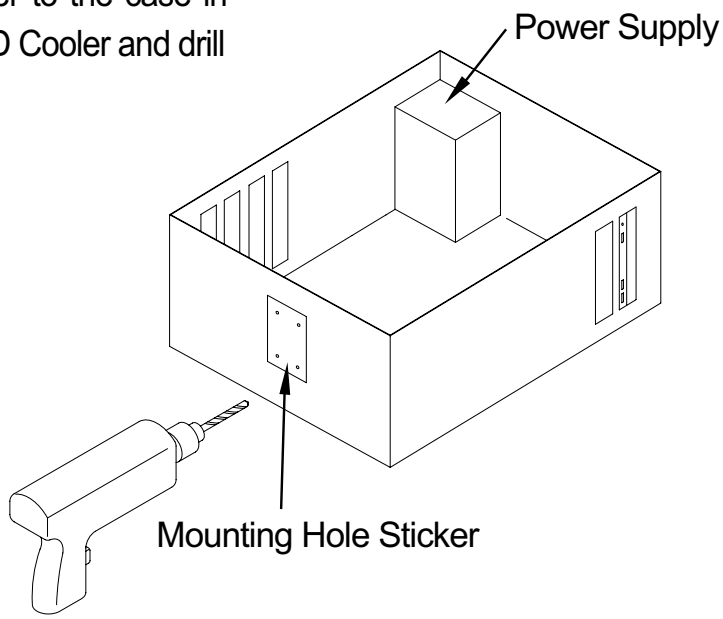
1) Install the Dampers & the Ground Wire

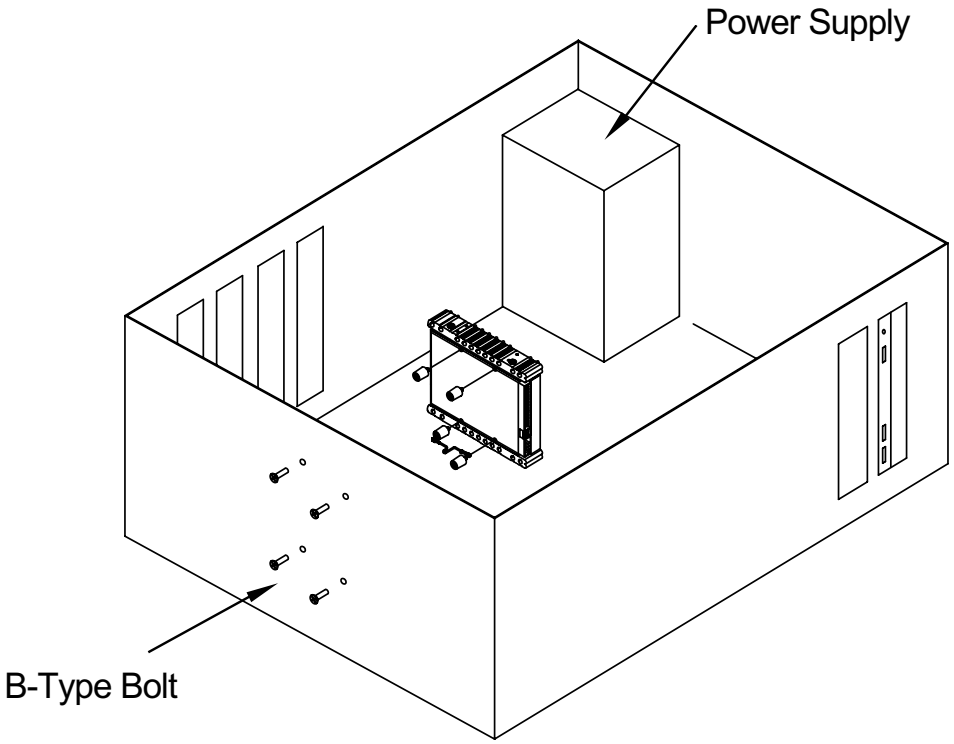
Install the 4 Dampers in the holes on the bottom side of the HDD. Insert the thread of one of the dampers through the ground wire's round terminal for the ground. [Refer to arrow C]



2) Drill 4 Holes in the Case

Attach the Mounting Hole Sticker to the case in which you wish to install the HDD Cooler and drill 4 holes with 4 ø drill.





3) Install in the Case.

Put the HDD Cooler on the frame of the case and firmly fasten with 4 B-Type Bolts. Use one of the B-Type Bolts to link the ground wire's Y-terminal to the chassis.

Note) Tighten the B-type bolts enough so that they are firm, but do not cause distortion of the dampers.

11. To Build a Noiseless System

For a completely noiseless system, use the following Zalman products.

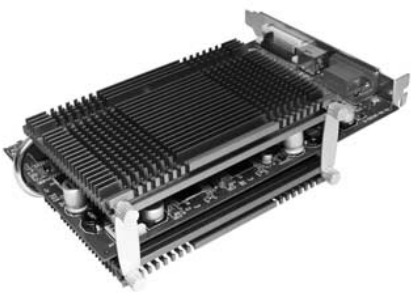
- ZM300A-APF : Power Supply
- ZM-NB47J : Northbridge Cooler
- CNPS Series CPU Coolers
- ZM-F1 : Case Fan
- ZM80X-HP : Heatpipe VGA Cooler

ZM300A-APF

ZM-NB47J

ZM-F1

CNPS7000 Series



ZM80X-HP

CNPS6000 Series

* For more information on our products, visit our website at www.zalman.co.kr.